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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/037,564	12/21/2001	David W. Beddome	90099010	7106	
7590 11/21/2003		EXAMINER			
Ephraim Starr Honeywell International Inc.			DUONG,	DUONG, THO V	
					
Garrett Engine I	Boosting Systems	ART UNIT	PAPER NUMBER		
23326 Hawthorne Boulevard, Suite 200 Torrance, CA 90505			3743	· ·	
			DATE MAILED: 11/21/2003	δ'	

Please find below and/or attached an Office communication concerning this application or proceeding.

	_		\wedge K				
Office Action Summary		Application No.	Applicant(s)				
		10/037,564	BEDDOME ET AL.				
		Examiner	Art Unit				
		Tho v Duong	3743				
	The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address				
Period fo	• •	/ IS SET TO EVDIBE AMONTH	(S) EDOM				
THE I - Externanter - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti within the statutory minimum of thirty (30) da vill apply and will expire SIX (6) MONTHS fron cause the application to become ABANDONE	mely filed ys will be considered timely, in the mailing date of this communication. ED (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed on 22 Oc	ctober 2003.					
2a)	This action is FINAL . 2b)⊠ This a	action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
4)[🖂	4)⊠ Claim(s) <u>1-56</u> is/are pending in the application.						
•	4a) Of the above claim(s) <u>3-6,9,10,12-31,33-36</u>		ithdrawn from consideration.				
5)□	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1,2,7,8,11,32,37,49 and 52</u> is/are rejected.						
7)⊠	Claim(s) <u>38,53 and 56</u> is/are objected to.						
8)□	Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	ion Papers						
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>28 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Attachment(s)							
	t(s) e of References Cited (PTO-892)	4) Interview Summary	y (PTO-413) Paper No(s)				
2) Notic	te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) 3.	5) Notice of Informal	Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

Claims 3-6,9-10,12-31,33-36,39-48,50-51 and 54-55 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election of species of figure 9B was made without traverse in Paper No. 7.

Specification

Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

The abstract of the disclosure is objected to because the last sentence of the abstract refers to the abstract itself but not the technical disclosure of the invention. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 8 has been indicated to depend on itself, which is claim 8. This dependency renders the scope of the claim indefinite.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2,7-8,11, 32,37, 49 and 52 are rejected under 35 U.S.C. 102(b) as being anticipated by Matsuo Shinobu (JP 408029077A). Matsuo discloses (figure 1) a heat exchanger comprising a core (1,4) having a variable length; a support structure (5,20,21), wherein the core is received by the support structure, wherein the support structure comprises a fixed member (5,20) and an attached biased deformable member (21) such as a bellows for accommodating variation in the length of the core while applying a biasing force to the core; the core (1,4) comprises a first end (4a) and a second end (4b), wherein the variable length of the core is set between the first end (4a) and the second end (b); the fixed member (5,20) comprises a first end section (5) and a second end section (20), wherein the first end and the second end sections

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(5,20) are positioned about the core, wherein the first end section (5) abuts the first end (4a) of the core and wherein the bellow (21) is mounted between the second end core (4b) and the second end (5) of the fixed member, so that bellow is deformed as the length of the core varies.

Allowable Subject Matter

Claims 38, 53 and 56 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art either taken singular or in combination fails to disclose that the bellow is wider than the core and the bellows comprises two plates with an expandable wall mounted between the plates.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Darragh et al. (US 4,697,633) discloses thermally balanced restraint system for a heat exchanger.

Young et al. (US 4,047,740) discloses internally insulated bellows assembly.

- O. Fisher (US 1,134,324) discloses a feed water heater that has a bellow section disposed between the housing and the header.
- J. F. Grace (US 1,780,477) discloses a condenser that has a expansion joint to support a core of a heat exchanger.

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the assembly.

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Corey (US 4,582,126) discloses a heat exchanger that has a mounting member adjusts for the temperature gradient in the assembly and the different coefficients of thermal expansion of

Blomgren (US 6,119,766) discloses a plate heat exchanger with connection pipes lined with bellows.

La Haye et al. (US 4,134,449) discloses bellows sealing arrangement.

Suzuki et al. (JP 11294737A) discloses a heat exchanger that has bellows to protect tubes from thermal deformation.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Tho Duong whose telephone number is (703) 305-0768. The examiner can normally be reached on from 9:30-6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Bennet, can be reached on (703) 308-0101. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0861.

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Tho Duong

Thompun

November 10, 2003

Patent Examiner.